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Notice of Allowability	Application No.	Applicant(s)	
	10/614,748	WOLFORD ET AL.	
	Examiner	Art Unit	
	Daniel S. Larkin	2856	
The MAILING DATE of this communication appeared All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>Amdt. and Replacement</u>	ent drawing sheets filed 17 Sept. 200	04 and Ex. Amdt. of 2	8 Sept. 2004.
2. ☑ The allowed claim(s) is/are <u>1-22</u> .			
3. \boxtimes The drawings filed on <u>17 September 2004</u> are accepted by	the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the priority documents have Cert	been received. been received in Application No cuments have been received in this communication to file a reply received in this re	national stage applica	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t DEPOSIT OF and/or INFORMATION about the depo 	son's Patent Drawing Review (PTO- s Amendment / Comment or in the O .84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	office action of the front (not the	
attached Examiner's comment regarding REQUIREMENT Attachment(s)	FOR THE DEPOSIT OF BIOLOGICA	AL MATERIAL.	vote une
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PT	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's Stateme	nent/Comment	Z IN

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert L. Greeson on 28 September 2004.

The application has been amended as follows:

Claim 1, claim line 9: Delete the term "canister" and insert the term -- protective enclosure means --.

Claim 5, claim line 18: Insert the term -- means -- after the term "sensor".

Claim 6, claim line 2: Delete the term "within"

Claim 6, claim line 3: Delete the terms "said canister".

Claim 6, claim line 3: Insert the term -- means -- after the term "sensor".

Claim 19, claim line 3: Delete the phrase "within said canister".

Claim 19, claim line 3: Delete the phrase "within said canister".

2. The following is an examiner's statement of reasons for allowance:

Prior art was not relied upon to reject claims 1-22 because the prior art fails to teach and/or make obvious the following:

Claims 1-4: Providing an apparatus for detecting leaks in a liquid storage tank

Art Unit: 2856

comprising: barometric pressure measuring means configured for measuring atmospheric pressure substantially at the surface of said liquid when a protective enclosure means is immersed therein; barometric pressure and differential pressure calculation means; tank dynamic and barometric pressure adjusted tank bottom pressure calculation means; and tank content mass calculation means in combination with all of the remaining limitations of the claim.

Claims 5-8: Providing an apparatus for detecting leaks in a liquid storage tank comprising: first barometric pressure measuring means configured for measuring atmospheric pressure substantially at the surface of said liquid when a protective enclosure means is immersed therein and for communicating such measurement to a low side pressure measurement component of a differential pressure sensor; a second barometric pressure measuring means configured for measuring atmospheric pressure substantially at the surface of said liquid when said protective enclosure means is immersed therein; barometric pressure and differential pressure calculation means; tank dynamic and barometric pressure adjusted tank bottom pressure calculation means; and tank content mass calculation means in combination with all of the remaining limitations of the claim.

Claims 9-15: Providing a method for detecting leaks in a storage tank, comprising the steps of selecting a mass detection system comprising: barometric pressure measuring means; barometric pressure and differential pressure calculation means; tank dynamic and barometric pressure adjusted tank bottom pressure calculation means; and tank content mass calculation means; placing a protective

Art Unit: 2856

enclosure at a bottom interior surface of the storage tank; and actuating the mass detection system in combination with all of the remaining limitations of the claim.

Claims 16-22: Providing a method for detecting leaks in a storage tank, comprising the steps of selecting a mass detection system comprising: first barometric pressure measuring means; a second barometric pressure measuring means; barometric pressure and differential pressure calculation means; tank dynamic and barometric pressure adjusted tank bottom pressure calculation means; and tank content mass calculation means; placing a protective enclosure at a bottom interior surface of the storage tank; and actuating the mass detection system in combination with all of the remaining limitations of the claim.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Larkin whose telephone number is 571-272-2198. The examiner can normally be reached on 8:00 AM - 5:00 PM Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/614,748 Page 5

Art Unit: 2856

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Larkin AU 2856 28 September 2004

DANIEL S. LARKIN PRIMARY EXAMINER